

Phytosociological Research Center

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Worldwide Bioclimatic Classification System

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(Adapted to Synoptical Table 30/08/2017)

SOUTH POLE STATION (ANTARCTICA TERR.) Altitude: 2800 m.
 Latitude: 89°59'S Longitude: 0°0'W
 Temperature observation period.: 1989-1994 (6)
 Rainfall observation period....: 1989-1994 (6)

(C/mm)	Ti	Mi	mi	M'i	m'i	Pi	EPI
Jan.	-28.62	-26.67	-30.56	-14.44	-37.22	0.8	0.00
Feb.	-38.89	-36.67	-41.11	-21.67	-56.11	1.3	0.00
Mar.	-55.28	-52.22	-58.33	-37.22	-70.56	0.0	0.00
Apr.	-58.06	-54.44	-61.67	-32.22	-72.78	0.0	0.00
May.	-56.11	-52.22	-60.00	-34.44	-72.22	0.0	0.00
Jun.	-57.78	-53.89	-61.67	-34.44	-74.44	0.0	0.00
Jul.	-58.89	-55.00	-62.78	-35.00	-74.44	0.0	0.00
Aug.	-59.72	-56.11	-63.33	-34.44	-77.22	0.0	0.00
Sep.	-59.17	-55.56	-62.78	-37.22	-77.22	0.0	0.00
Oct.	-50.83	-48.33	-53.33	-29.44	-65.56	0.3	0.00
Nov.	-38.62	-36.67	-40.56	-18.89	-50.56	0.0	0.00
Dec.	-28.06	-26.67	-29.44	-18.89	-38.33	0.5	0.00
Year	-49.17	-46.20	-52.13	-29.03	-63.89	3	0.00

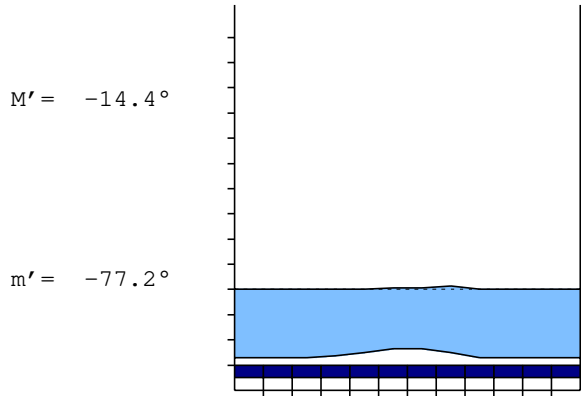
BIOCLIMATIC INDICES AND DIAGNOSIS

Thermicity index.....(It): -1686
 Compensated thermicity index.....(Itc): -1475
 Simple continentality index.....(Ic): 31.7
 Diurnality index.....(Id): 7.8
 Annual ombrothermic index.....(Io): No
 Monthly estival ombrothermic index.....(Ios1): No
 Bimonthly estival ombrothermic index.....(Ios2): No
 Three monthly estival ombrothermic index.....(Ios3): No
 Four monthly estival ombrothermic index.....(Ios4): No
 Annual ombro-evaporation index.....(Ioe): No
 Annual positive temperature.....(Tp): 0
 Annual negative temperature.....(Tn): 5900
 Estival temperature.....(Ts): 0
 Positive precipitation.....(Pp): 0

N. of	P>4T	P:2T-4T	PT-2T	P<T	T<0
Months	0	0	0	0	12

Latitudinal Belt...: High polar
 Continentality.....: Continental - Low Eucontinental
 Bioclimate.....: Polar Ultragelid
 Bioclimatic Belt...: Lower Ultragelid Un-Snowy

SOUTH POLE STATION (ANTARCTICA TERR.) 2800 m
 P= 3 89° 59'S 0° 0'W 6/6 y.
 T= -49.2° Ic= 31.7 Tp= 0 Tn= 5900
 m= -63.3° M= -56.1° Itc= -1475 Io=9999.9



Polar Ultragelid
 Lower Ultragelid Un-Snowy

WATER INDEX CARD SOUTH POLE STATION (ANTARCTICA TERR.)
 Altitude: 2800 m. Latitude: 89° 59'S

(C/mm)	T	PE	P	VR	R	RE	DF	SP	DR	HC
Jul.	-58.9	0	0	0	6	0	0	0	0	*
Aug.	-59.7	0	0	0	6	0	0	0	0	*
Sep.	-59.2	0	0	0	6	0	0	0	0	*
Oct.	-50.8	0	0	0	6	0	0	0	0	*
Nov.	-38.6	0	0	0	6	0	0	0	0	*
Dec.	-28.1	0	1	1	7	0	0	0	0	*
Jan.	-28.6	0	1	1	7	0	0	0	0	*
Feb.	-38.9	0	1	1	9	0	0	0	0	*
Mar.	-55.3	0	0	0	9	0	0	0	0	*
Apr.	-58.1	0	0	0	9	0	0	0	0	*
May.	-56.1	0	0	0	9	0	0	0	0	*
Jun.	-57.8	0	0	0	9	0	0	0	0	*
Year	-49.2	0	3	*	*	0	0	0	0	*

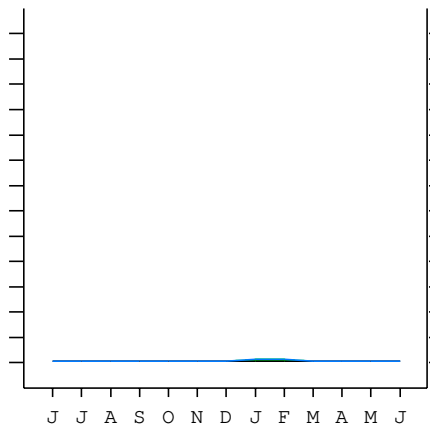
R = Reserve VR = Variation of the reserve RE = Real evapotranspiration
 DR = Drainage HC = Humidity coefficient DF = Deficit SP = Superavit

SOUTH POLE STATION (ANTARCTICA TERR.)
 89°59'S 0°0'W 2800 m 6/6 y.

T= -49.2 Ic= 31.7 Polar Ultragelid
 m= -63.3 Tp= 0 Lower Ultragelid
 M= -56.1 Tn= 5900 Un-Snowy
 M' = -14.4 Itc= -1475
 m' = -77.2 Io=9999.9
 P= 3 mm
 PE= 0 mm

Imbibing	
Saturation	
Reserve Use	
Deficit	

All over the year,
 there is no hydric deficit



SOUTH POLE STATION (ANTARCTICA TERR.)

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SUMMARY OF RIVAS-MARTINEZ CLASSIFICATION

Continental Index [C3a]
 + Type: C. Continental
 + Subtype: 3. Eucontinental
 + Variant: a. Low
 Thermic types [C2.D11]
 + Latitudinal zone: C. Cold
 + Latitudinal belt: 2. High polar
 + Thermic type: D. Gelid
 + Thermic subtype: 11. Ultragelid
 Bioclimatic types [E5.7.1]
 + Macrobioclimate: E. Polar
 + Bioclimate: 5. Ultragelid
 + Bioclimatic variant ..:
 + Thermic type.....: 7. Lower Ultragelid
 + Thermic subtype.....:
 + Ombrothermic type ...: 1. Un-Snowy
 + Ombrothermic subtype :
 Bioclimatic Classification

SOUTH POLE STATION (ANTARCTICA TERR.)

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PRECIPITATION PARAMETERS

Warmest semester of the year.....(Pss): 3
 Coldest semester of the year.....(Psw): 0
 Warmest four months period of the year.....(Pcm1): 3
 Following warmest four months period.....(Pcm2): 0
 Positive precipitation dryest 3 months.....(Ppd): 0
 Positive precipitation dryest 2 months.....(Ppd2): 0
 Positive precipitation dryest 1 month.....(Ppd1): 0
 Positive precipitation warmest 3 months.....(Pps): 0
 Positive precipitation warmest 2 months.....(Pps2): 0
 Positive precipitation warmest 1 month.....(Pps1): 0
 Positive precipitation coldest 3 months.....(Ppw): 0
 Positive precipitation coldest 2 months.....(Ppw2): 0
 Positive precipitation coldest 1 month.....(Ppw1): 0

Seasons	Winter Tr1-W	Spring Tr2-P	Summer Tr3-S	Automn Tr4-F
Rainfall	0	0	2	0

Seasonal rainfall rhythms: S > P > W > F

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TEMPERATURE PARAMETERS

Average warmest month [T].....(Tmax): -28.1
 Average coldest month [T].....(Tmin): -59.7
 Maximum temp. warmest month [M].....(Tmmax): -26.7
 Minimum temp. coldest month [m].....(Tmmin): -63.3
 Absolute Max.temp. warmest month [M'].....(Tamax): -14.4
 Absolute Min.temp. coldest month [m'].....(Tamin): -77.2
 First warmest contrasted month [M].....(Tcmax): -52.2 (5)
 First coldest contrasted month [m].....(Tcmin): -60.0 (5)
 Estival temperature.....(Ts): 0
 Positive temperature dryest 3 months.....(Tpd): 0
 Positive temperature dryest 2 months.....(Tpd2): 0
 Positive temperature dryest 1 month.....(Tpd1): 0
 Positive temperature warmest 3 months.....(Tps): 0
 Positive temperature warmest 2 months.....(Tps2): 0
 Positive temperature warmest 1 month.....(Tps1): 0
 Positive temperature coldest 3 months.....(Tpw): 0
 Positive temperature coldest 2 months.....(Tpw2): 0
 Positive temperature coldest 1 month.....(Tpw1): 0

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SEASONAL PARAMETERS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Warmest semester...(Sms)	o	o	o							o	o	o
Dryest semester....(Smd)			o	o	o	o	o	o				
Warmest 4 months...(Cm1)	o	o									o	o
Dryest 4 months....(Cmd)			o	o	o	o						
Vegetation Activity(Pav)												
Ultragelid...[M' <=0] (Pf)	o	o	o	o	o	o	o	o	o	o	o	o
Hypergelid...[M <=0] (Pf)	o	o	o	o	o	o	o	o	o	o	o	o
Gelid.....[T <=0] (Pf)	o	o	o	o	o	o	o	o	o	o	o	o
Subgelid.....[m <=0] (Pf)	o	o	o	o	o	o	o	o	o	o	o	o
Pregelid.....[m' <=0] (Pf)	o	o	o	o	o	o	o	o	o	o	o	o
Agelid.....[m' > 0] (Pf)												
HiperAgelid..[all>0] (Pf)												

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OMBROTHERMIC PARAMETERS

Annual aridity index.[PE/P].....(Iar): 0.00
 Mediterranean index of January.....(Im1): 0.00
 Mediterranean index of January & February.....(Im2): 0.00
 Mediterranean index of December to February...(Im3): 0.00

Months	Dec.	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.
Pp(x10)	*	*	*	*	*	*	*	*	*	*	*	*
Tp	*	*	*	*	*	*	*	*	*	*	*	*
Io (Iom)	*	*	*	*	*	*	*	*	*	*	*	*
Seasons	Summer			Autumn			Winter			Spring		
Pp(x10)/Tp	*/*			*/*			*/*			*/*		
Io (Iot)	*			*			*			*		
Semesters	December-May						June-November					
Pp(x10)/Tp	*/*						*/*					
Io (Iosm)	*						*					

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Aridity Value Index (AVI)

[10xPP/TP=IO]: 0/0=9999.90 There is No Yearly Aridity

Months	Dec.	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.
Pp [P*10]	*	*	*	*	*	*	*	*	*	*	*	*
Tp [T*10]	*	*	*	*	*	*	*	*	*	*	*	*
Iom [Pp/Tp]	!!	!!	!!	!!	!!	!!	!!	!!	!!	!!	!!	!!
Avm [200-Iom]	***	***	***	***	***	***	***	***	***	***	***	***
Seasons	Summer			Autumn			Winter			Spring		
Pp / Tp	* / *			* / *			* / *			* / *		
Iot [Pp/Tp]	**			**			**			**		
Avs E[Avm<200]	***			***			***			***		

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BIOCLIMATIC INDICES I

CI of Supan (1884) [Tmax-Tmin](Sp): 31.66
 CI of Gorezinski (1920) [1.7*Sp/sin(Lat)-20.4]: 33.42
 CI of Conrad (1946) [1.7*Sp/sin(Lat+10)-14]: 40.65
 + Subcontinental (40<CI<60)
 CI of Currey (1974) [CI=Sp/(1+Lat/3)]: 1.02
 + Oceanic (0.6<CI<1.1)
 Rainfall Index of Lang (1925) [R=P/T]: -0.06
 +
 Aridity Index of Martonne (1926) [Ia=P/(T+10)]: -0.07
 +
 I of Emberger (1930) [Q=100*P/(Tmax²-Tmin²)]: -0.09
 +
 I of Dantin & Revenga (1940) [DR=100*T/P]:-1695.49
 +
 Aridity Index of UNEP [I=P/PE]: 0.00
 + Hyperarid (0.05>Im)
 Potential Erosion I of Fournier (1960) [K=Pi²/P].....: 0.58
 + Very low (K<60)

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BIOCLIMATIC INDICES II

Bioclimatic classification of Gaussen & Bagnouls (1957)
 + Climate: C. Gelid
 + Region: 12. Criomeric (Gelid)
 + Thermic type: 11. Ultragelid

Thornthwaite (1948)												
	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
P-E ratio	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T-E ratio	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Precipitation-effectiveness: 0.16						Temperature-efficiency: 0.00						
Moisture Index [MI=100*(P-PE)/PE]: 0.00											0.00	
+ C2.Subhumid humid (0<MI<20)												
Index of dryness [DI=100*d/PE]: 0.00											0.00	
+ No deficit (0<DI<16.7)												
Index of humidity [HI=100*s/PE]: 0.00											0.00	
+ No surplus (0<HI<10)												
Potential Evapotranspiration PE: 0.00											0.00	
+ Ice climate (PE<142)												

